

Seq.	Num	Length	Running	
No.	Pages	Minutes	Time	Topic
				<b>Day 1</b>
			9:00 AM	Classroom opens
1	5	10	9:30 AM	Welcome to the SPICE Tutorials
2	25	30	9:40 AM	SPICE overview
3	15	20	10:10 AM	SPICE conventions
4	12	15	10:30 AM	NAIF IDs and Names
		15	10:45 AM	Break
5	34	50	11:00 AM	Fundamental concepts of observation geometry
6	17	20	11:50 AM	Intro to kernel files
7	22	25	12:10 PM	Intro to Toolkit: libraries, utilities, applications, documentation
		70	12:35 PM	Lunch
8	8	10	1:45 PM	Using Module Headers
		10	1:55 PM	Brief demo of navigating Toolkit documentation
		30	2:05 PM	Lesson #1 Navigating through the SPICE components
		30	2:35 PM	Lesson #2 Practice building a program: call TK_Version, or try ???
9	7	15	3:05 PM	Time: systems, formats and conversions
		0	3:20 PM	Starting the Remote Sensing Lessons: 6 parts
		35	3:20 PM	Lesson #3 Remote Sensing: time conversions
		0	3:55 PM	Continue with "extra credit" portion if done early
			3:55 PM	<b>End of class</b>
				<b>Day 2</b>
			8:30 AM	Classroom opens
10	29	35	9:00 AM	SPK (Ephemeris information)
		60	9:35 AM	Lesson #4 Remote Sensing: obtaining target states and positions
			10:35 AM	Continue with "extra credit" portion if done early
11	11	15	10:35 AM	PcK (Planetary cartographic and physical constants)
12	11	15	10:50 AM	CK (Orientation information)
13	13	20	11:05 AM	FK (Reference frames information)
14	8	15	11:25 AM	Using the frames kernel in conjunction with other kernels
		60	11:40 AM	Lesson #5 Remote Sensing: spacecraft orientation and reference frames
		0	12:40 PM	Continue with "extra credit" portion if done early
		60	12:40 PM	<b>Lunch</b>
15	16	25	1:40 PM	Computing derived quantities
		60	2:05 PM	Lesson #6 Remote Sensing: computing sub-s/c and sub-solar points
		0	3:05 PM	Continue with "extra credit" portion if done early
16	12	20	3:05 PM	IK (Instrument information)
17	2	10	3:25 PM	Reading FKs and IKs
			3:35 PM	<b>End of class</b>

Seq.	Num	Length	Running	
No.	Pages	Minutes	Time	Topic
				<b>Day 3</b>
			8:30 AM	Classroom opens
		60	9:00 AM	Lesson #7 Remote Sensing: intersecting vectors with a triaxial ellipsoid and computing illumination angles
		0	10:00 AM	Continue with "extra credit" portion if done early
18	6	10	10:00 AM	Exception handling
19	6	10	10:10 AM	Common Problems - An intro
20	20	25	10:20 AM	Toolkit applications: chronos, spkmerge, mkspk, etc.
		45	10:45 AM	Lesson #8 Practice using some toolkit apps: e.g. chronos, commnt, spkdiff, ckbief, ....
21	16	20	11:30 AM	Other tools (not in generic Toolkit)
22	29	20	11:50 AM	Geometry Finder Subsystem Overview
23	10	15	12:10 PM	Summary of Key Points (Getting Started)
		60	12:25 PM	<b>Lunch</b>
		5	1:25 PM	Overview of "Other Stuff" lesson
		5	1:30 PM	Overview of "In-situ" lesson
		5	1:35 PM	Overview of "Event finding" lesson
		5	1:40 PM	Overview of "Binary PCK" lesson
		45	1:45 PM	Lesson #9 Pick "Other Stuff," and then more if have time
24	11	15	2:30 PM	The NAIF Server and Horizons Server
25	10	15	2:45 PM	Shape model preview
26	8	15	3:00 PM	SPICE development plans
		15	3:15 PM	Summary and class feedback
			3:30 PM	<b>End of class</b>
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				<b>Backup: included in package but not presented</b>
1	7			Introduction to SPICE
2	7			Motivation for SPICE
3	9			Porting Kernels
4	7			Comments (meta-data) in SPICE kernels
5	10			Installing the Toolkit
6	16			Preparing for programming
7	15			IDL interface to CSPICE
8	14			Matlab interface to CSPICE
9	22			Matlab programming example
10	24			IDL programming example
11	26			C programming example
12	26			Fortran programming example
13	18			LSK and SCLK (Leapseconds and Spacecraft Clock kernels)
14	22			Other useful SPICELIB/CSPICE functions
15	9			E-Kernel Overview
16	11			SPICE Documentation Taxonomy
17	33			Lunar/earth binary PCK and FKs
18	56			Dynamic frames: how to define many kinds of reference frames
19	57			Making an SPK file
20	28			Making a CK file
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